

New Insights on the Impact of Rotation and Current Profile on the Stability of the ITER Baseline Scenario in DIII-D

- **Low frequency spectroscopy shows approach to instability at low torque**
 - May be useful to sense instability in real-time
 - MARS-K modelling with collisionality and resistivity only partially reproduce amplitude increase
- **Deeper current minimum around $q=2$ associated with increased 2/1 instability**
 - Tearing instability (~ 1 kHz) may be correlated to the global kink measured by spectroscopy (20 Hz)

New experiments show that small changes in q_{95} may improve stability for Q=10 scenario

